

What is claimed is:

1. A woven fabric having a limiting oxygen index of greater than 21 and made using a yarn comprised of a
5 co-mingled bundle of 10 to 90 wt % of a first continuous filament component and 90 to 10 wt % of a second continuous filament component, the two continuous filament components having different shrinkage characteristics when exposed to elevated
10 temperature,
said yarn having a random entangled loop structure wherein the weight per unit length of the yarn is 3 to 25 percent higher than a continuous filament yarn having the same composition but no entanglement or
15 loops.
2. The woven fabric of Claim 1 wherein the weight per unit length of the yarns is 10 to 18 wt % higher than a continuous filament yarn having the same
20 composition but no entanglement or loops.
3. The woven fabric of Claim 1 wherein the yarns having a random entangled loop structure have a linear density of 200 to 1000 denier (220 to 1100 dtex).
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4. The woven fabric of Claim 3 wherein the yarns having a random entangled loop structure have a linear density of 300 to 600 denier (340 to 680 dtex).
- 30 5. The woven fabric of Claim 4 wherein one of the continuous filament components is an aramid filament.
- 35 6. The woven fabric of Claim 1 made from a plain weave.

7. The woven fabric of Claim 1 made from a twill weave.

8. A protective garment comprising an outer shell, a moisture barrier, and an inner liner, said outer shell comprised of the woven fabric of Claim 1

9. A protective garment comprising an outer shell, a moisture barrier, and an inner liner, said outer shell comprised of the woven fabric of Claim 5

10. A woven fabric comprised of continuous filament yarn, comprised of a co-mingled bundle of 10 to 90 wt % para-aramid filaments and 90 to 10 wt % meta-aramid filaments,

said yarn having a random entangled loop structure wherein the weight per unit length of the yarns is 3 to 25 percent higher than a continuous filament yarn having the same composition but no entanglement or loops.

11. The woven fabric of Claim 10 wherein the weight per unit length of the yarn is 10 to 18 wt % higher than a continuous filament yarn having no entanglement or loops.

12. The woven fabric of Claim 10 wherein the yarn having a random entangled loop structure has a linear density of 200 to 1000 denier (220 to 1100 dtex).

13. The woven fabric of Claim 12 wherein the yarn having a random entangled loop structure has a linear density of 300 to 600 denier (340 to 680 dtex).

14. The woven fabric of Claim 10 made from a plain weave.

15. The woven fabric of Claim 10 made from a twill weave.

16. The woven fabric of Claim 10 wherein the
5 para-aramid filaments are poly(paraphenylene
terephthalamide) filaments.

17. The woven fabric of Claim 10 wherein the
meta-aramid filaments are poly(metaphenylene
10 isophthalamide) filaments.

18. The woven fabric of Claim 10 wherein the
para-aramid filaments are poly(paraphenylene
terephthalamide) filaments and are present in an amount
15 of 50% and the meta-aramid filaments are
poly(metaphenylene isophthalamide) filaments and are
present in an amount of 50%.

19. A protective garment comprising an outer
20 shell, a moisture barrier, and an inner liner, said
outer shell comprised of the woven fabric of Claim 10.

20. A protective garment comprising an outer
shell, a moisture barrier, and an inner liner, said
25 outer shell comprised of the woven fabric of Claim 16.

21. A protective garment comprising an outer
shell, a moisture barrier, and an inner liner, said
outer shell comprised of the woven fabric of Claim 17.